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Notice of Allowability

Application No.

09/770,978

Applicant(s)

KANEVSKY ET AL.

Examiner

Ba Huynh

Art Unit

2179

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the examiner's amendment on 8/26/05.
2. ☒ The allowed claim(s) is/are 1,2,4-9,11-15 and 18-22.
3. ☒ The drawings filed on 26 January 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>8/23/05</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

BA HUYNH
PRIMARY EXAMINER

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. John S. Sensny on 8/30/05.

The application has been amended as follows:

Claims 1-22 are amended as appear in the attachment to Examiner Amendment.

Reason for allowance:

Independent claims 1, 7, 11, 14, 15, 18, are allowable over the prior art of record. Specifically, prior art of record fail to clearly teach or suggest that each of the topic icons of the composite icon has a separate index attachment which opens directly to information in the text file represented by said topic icon.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ba Huynh whose telephone number is (571) 272-4138. The examiner can normally be reached on Mon - Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Heather Herndon can be reached on (703) 308-5186. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ba Huynh
Primary Examiner
AU 2179
8/26/05

BA HUYNH
PRIMARY EXAMINER

Attachment to Examiner Amendment

LISTING OF THE CLAIMS:

1. (Currently Amended) A system for determining and displaying icons representing text files, comprising:

a content extractor for determining a plurality of topics of a text file by examining words in the file;

a means for associating a respective one of a plurality of topic icons with each of the a plurality of topics;

means for assigning weighted values to each of said plurality of topics;

a selector for selecting a respective one of the plurality of topic icons to represent each of said plurality of topics of the text file on the basis of weighted values assigned to said topics; and

means for creating a composite icon including the selected ones of said plurality of topic icons; and

a display for displaying the at least one of said composite icon to represent the text file;

and

wherein each of the topic icons of the composite icon has an a separate index attachment which opens directly to information in the text file represented by said topic icon.

2. (Previously Presented) A system according to Claim 1, wherein the selector includes means for selecting the closest ones of said plurality of icons to represent the text file.

Claim 3 (Cancelled).

4. (Previously Presented) A system according to Claim 1, wherein:
each of the plurality of topics is associated with a respective one part of the text file; and
each of the selected plurality of icons, in the composite icon, points to the part of the text file associated with the topic that is associated with the icon.
5. (Previously Presented) A system according to Claim 1, wherein the selected icons are sensed by different senses.
6. (Original) A system according to Claim 1, wherein the icons facilitate use of a computer by people with various disabilities.
7. (Currently Amended) A system for representing contents of computer files via icons, the system comprising:
a computer memory including a group of directories with lists of files;
a semantic content extractor for determining a plurality of topics of each of the files from an examination of words in the files; and
a module for creating a plurality of topic icons representing the files including:
a means for associating a respective one of the topic icons with each of the determined topics, means for assigning weighted values to each of said plurality of topics, and means for selecting topic icons to represent the files based on the weighted values assigned to said determined topics; and
means for creating, for each of the files, a composite icon including the plurality of topic icons associated with the topics of the file, and wherein each of the topic icons of the composite

icon for said each of the files has ~~an~~ a separate index attachment which opens directly to information in said each file represented by said topic icon.

8. (Original) A system according to Claim 7, wherein the semantic content extractor includes:

a module that associates with a text file a language model, and word, key words and key phrases counts;

a topic identifier that uses the language model and counts to identify a topic; and
a module that partitions a text in a file by topic count.

9. (Original) A system according to Claim 8, wherein the topic identifier uses likelihood ratio to partition texts in parts by topics; likelihood in this ratio are defined by using probabilities of words from language models of the text in a file and language models for various topics that are stored in the database.

Claim 10 (Cancelled).

11. (Currently Amended) An icon creator for creating icons and selecting icons for representing a file, comprising:

a semantic content extractor for identifying the importance and significance of a plurality of topics associated with the file based on an examination of words in the file; and

a matcher to create a match of data and images to create a multitude of topic icons using a database of images and a database of icons, including:

a means for associating a respective one of the topic icons with each of the topics, means for assigning weighted values to each of said plurality of topics, and means for selecting a plurality of the created topic icons to form a composite icon to represent the file based on the weighted values assigned to the identified topics; and

wherein each of the selected topic icons of the composite icon has an a separate index attachment, which opens directly to information in the file represented by said selected topic icon.

12. (Original) An icon creator according to Claim 11, wherein a blind person can use a sound icon using the database of sound icons; this would enable the blind user to use their sense of hearing to choose the file they wish to open.

13. (Original) An icon creator according to Claim 11, further comprising means to allow a person with a reading disability to use the icon system, including a group of files that are formed into an icon attachment; the user then chooses an icon, using the pictures or sounds and the user can then use a speech synthesizer can listen to a file.

14. (Previously Presented) An icon creator for creating an icon representing a file, said file including a larger part showing cars, a smaller part showing travel, and a middle sized part showing dealerships, the icon creator comprising:

a semantic content extractor for identifying the importance and significance of topics associated with the file based on an examination of words in the file;

a matcher to create a match of data and images to create composite icons using a database of images and a database of icons; wherein said composite icons contain multiple topics including cars and travel, and dealerships; and

means to contain an index which lists information on cars or building, means to show where the information on cars is placed in the file; and wherein, using a fraction method, the files can be broken down;

wherein each icon has an index attachment, which opens directly to the file.

15. (Currently Amended) A method for creating icons, comprising:

generating a list of files;

reading the word content of each file;

for each file,

i) attaching a plurality of topics to the file based on the read word content of the file;

ii) generating a plurality of topic icons for the file based on the topics attached to the file;

iii) creating a composite icon for the file from the plurality of topic icons generated for the file; and

iv) using said plurality of topic icons in the composite icon to point to different parts of the file having the different topics associated with said plurality of topic icons;

creating an index of topics;

printing a list of topic icons near file names; and

creating a list of topic icons to list files; and

wherein each of the topic icons of the composite icon has ~~an~~ a separate index attachment which opens directly to information in the file represented by said topic icon.

Claims 16 and 17 (Cancelled).

18. (Currently Amended) A program storage device readable by machine, tangibly embodying a program of instructions executable by the machine to perform method steps for determining and displaying icons representing files containing text, said method steps comprising:

determining a plurality of topics of a file by examining words in the file;

searching a database of topic icons;

~~on the basis of~~ assigning weighted values to each of said plurality of topics, including:

associating a respective one of the topic icons with each of the topics, assigning weighted values to each of said plurality of topics, and selecting topic icons to represent the file based on the weighted values assigned to said determined topics;

creating a composite icon for the file, said composite icon including the topic icons associated with the topics of the file;

displaying the ~~selected~~ composite icon to represent the file; and

wherein each of the topic icons of the composite icon has ~~an~~ a separate index attachment which opens directly to information in the file represented by said topic icon.

19. (Original) A program storage device according to Claim 18, wherein in the database, each icon is associated with words, and wherein:

the determining step includes the step of using a semantic content extractor to identify the importance and significance of topics associated with the file; and

the selecting step includes the step of comparing said topics with the words in the database to select one of the icons to represent the file.

20. (Previously Amended) The system in claim 1, where the icons contain advertisements, which include hyperlinks.

21. (Previously Amended) The system in claim 20 where users pay less for the system if advertisements are included.

22. (Previously Amended) The system in claim 20 where an advertiser pays a manufacturer or seller of the system for including said advertisements in the icons.